

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: ssspta1805jxb

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * * Welcome to STN International * * * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 Jul 12 BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS 4 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS 5 AUG 02 CPlus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS 6 AUG 02 The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS 7 AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage
NEWS 8 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal status data from INPADOC
NEWS 9 SEP 01 INPADOC: New family current-awareness alert (SDI) available
NEWS 10 SEP 01 New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 12 SEP 14 STN Patent Forum to be held October 13, 2004, in Iselin, NJ
NEWS 13 SEP 27 STANDARDS will no longer be available on STN
NEWS 14 SEP 27 SWETSCAN will no longer be available on STN

NEWS EXPRESS JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004

| | |
|------------|---|
| NEWS HOURS | STN Operating Hours Plus Help Desk Availability |
| NEWS INTER | General Internet Information |
| NEWS LOGIN | Welcome Banner and News Items |
| NEWS PHONE | Direct Dial and Telecommunication Network Access to STN |
| NEWS WWW | CAS World Wide Web Site (general information) |

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 18:38:26 ON 14 OCT 2004

FILE 'MEDLINE' ENTERED AT 18:38:40 ON 14 OCT 2004

FILE 'BIOSIS' ENTERED AT 18:38:40 ON 14 OCT 2004
Copyright (c) 2004 The Thomson Corporation.

=> s phosphorescent protein
L1 2 PHOSPHORESCENT PROTEIN

=> d 1-2 bib ab

L1 ANSWER 1 OF 2 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 1995:386861 BIOSIS
DN PREV199598401161
TI Synthesis of phosphorescent metalloporphyrins with isothiocyanate group.
AU Ponamoreva, O. N.; Rumyantseva, V. D.; Mironov, A. F. [Reprint author];
Chudinov, A. V.
CS ul. 26 Bakinskikh Komissarov d. 1, korp. 1, kv. 73, 117571 Moscow, Russia
SO Bioorganicheskaya Khimiya, (1995) Vol. 21, No. 4, pp. 296-300.
CODEN: BIKHD7. ISSN: 0132-3423.

DT Article
LA Russian
ED Entered STN: 13 Sep 1995
Last Updated on STN: 13 Sep 1995
AB A synthesis of palladium complexes of 6,7-bis(N-alpha-lysino)mesoporphyrin
IX and its isothiocyanate derivative as prospective **phosphorescent**
protein probes was performed.

L1 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 1988:475253 BIOSIS
DN PREV198835105143; BR35:105143
TI PHOSPHORESCENT PROTEIN CONJUGATES IN AQUEOUS
OXYGENATED SOLUTIONS APPLICATIONS FOR MACROMOLECULAR SPECTROSCOPY AND
PHOSPHORESCENCE MICROSCOPY.
AU MARRIOTT G [Reprint author]; JOVIN T M
CS MAX PLANCK INST BIOPHYSIKALISCHE CHEMIE, POSTFACH 2841, D-3400 GOETTINGEN
SO Cytometry, (1988) No. SUPPL. 2, pp. 4.
Meeting Info.: XII INTERNATIONAL MEETING OF THE SOCIETY FOR ANALYTICAL
CYTOLOGY, BRECKENRIDGE, COLORADO, USA, SEPTEMBER 4-9, 1988. CYTOMETRY.
CODEN: CYTODQ. ISSN: 0196-4763.

DT Conference; (Meeting)
FS BR
LA ENGLISH
ED Entered STN: 25 Oct 1988
Last Updated on STN: 25 Oct 1988

=> s phosphorescent (2a) protein
L2 10 PHOSPHORESCENT (2A) PROTEIN

=> s l2 not l1
L3 8 L2 NOT L1

=> duplicate remove l3
DUPLICATE PREFERENCE IS 'MEDLINE, BIOSIS'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L3
L4 5 DUPLICATE REMOVE L3 (3 DUPLICATES REMOVED)

=> d 1-5 bib ab

L4 ANSWER 1 OF 5 MEDLINE on STN DUPLICATE 1
AN 2001235988 MEDLINE
DN PubMed ID: 11237341
TI Monofunctional derivatives of coproporphyrins for **phosphorescent**
labeling of **proteins** and binding assays.
AU O'Riordan T C; Soini A E; Papkovsky D B
CS Biochemistry Department, National University of Ireland, Cork, Lee
Maltings, Prospect Row, Cork, Ireland.
SO Analytical biochemistry, (2001 Mar15) 290 (2) 366-75.
Journal code: 0370535. ISSN: 0003-2697.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals

EM 200105
ED Entered STN: 20010517
Last Updated on STN: 20010517
Entered Medline: 20010503
AB p-Isothiocyanatophenyl derivatives of Pt(II)- and Pd(II)-coproporphyrin I are described as stable monofunctional reagents which enable simple covalent labeling of proteins and other biomolecules under mild conditions in aqueous solutions. Labeling procedure was optimized for antibodies, avidin, and neutravidin. Photophysical properties of resulting conjugates important for their use in binding assays based on time-resolved phosphorescence detection were studied. The functional activity and long-term storage stability of antibody conjugates were assessed in comparison with unmodified proteins. The new labels and their conjugates were evaluated in the solid-phase immunoassays using commercial time-resolved phosphorescence readers Victor(2) and Arcus-1230 (Wallac). Potential applications of these reagents in in vitro diagnostics are discussed.
Copyright 2001 Academic Press.

L4 ANSWER 2 OF 5 MEDLINE on STN DUPLICATE 2
AN 2000150420 MEDLINE
DN PubMed ID: 10684627
TI Hydrogen exchange at the core of Escherichia coli alkaline phosphatase studied by room-temperature tryptophan phosphorescence.
AU Fischer C J; Schauerte J A; Wisser K C; Gafni A; Steel D G
CS Institute of Gerontology, Applied Physics Program, Department of Biological Chemistry, Department of Physics, University of Michigan, Ann Arbor, Michigan 48109-2007, USA.
NC AGO9761 (NIA)
GM08270 (NIGMS)
SO Biochemistry, (2000 Feb 15) 39 (6) 1455-61.
Journal code: 0370623. ISSN: 0006-2960.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200003
ED Entered STN: 20000327
Last Updated on STN: 20000327
Entered Medline: 20000313
AB The room-temperature tryptophan (Trp) phosphorescence lifetime is sensitive to details of the local environment and has been shown to increase significantly in some proteins following H-D exchange. Careful analysis of the phosphorescence lifetime distribution of Trp 109 in Escherichia coli alkaline phosphatase (AP) in solution as a function of time during the H-D exchange shows that this process corresponds to a two-state reaction resulting from the deuteration of a single, specific hydrogen in the core of the protein. The absence of a pH dependence of the exchange rate suggests that the exchange is not an EX2 process, and therefore, a certain degree of unfolding is required for exchange to occur. This discovery opens up the use of phosphorescence-detected hydrogen exchange as a sensitive tool for monitoring the local susceptibility and activation energy for exchange in **proteins** having a **phosphorescent** Trp and, for example, for studying the effects of local mutations upon that susceptibility.
L4 ANSWER 3 OF 5 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 1989:395959 BIOSIS
DN PREV198937062607; BR37:62607
TI ACCESSIBILITY OF THE HEME RING OF HEME PROTEINS PROBED BY PHOSPHORESCENT 6 BROMO-2-NAPHTHYSULFATE.
AU BAYLES S W [Reprint author]; BECKHAM S; MONTREM A; SCHUH M D; WRIGHT T M
CS DEP CHEM, DAVIDSON COLL, DAVIDSON, NC 28036, USA
SO Photochemistry and Photobiology, (1989) Vol. 49, No. SUPPL, pp. 48S.
Meeting Info.: 17TH ANNUAL MEETING OF THE AMERICAN SOCIETY FOR PHOTOBIOLOGY, BOSTON, MASSACHUSETTS, USA, JULY 2-6, 1989. PHOTOCHEM PHOTOBIOOL.
CODEN: PHCBAP. ISSN: 0031-8655.
DT Conference; (Meeting)

FS BR
LA ENGLISH
ED Entered STN: 22 Aug 1989
Last Updated on STN: 29 Aug 1989

L4 ANSWER 4 OF 5 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
AN 1984:12824 BIOSIS
DN PREV198426012824; BR26:12824
TI EFFECT OF SALINITY AND NITROGEN SOURCE ON PROTEIN ELECTRO
PHOSPHORESCENT SPECTRUM IN PEA ROOTS.
AU RAKOVA N M [Reprint author]; KLYSHEV L K; ZHABAEVA M U
CS INST BOT, ACAD SCI KAZ SSR, ALMA-ATA, USSR
SO Izvestiya Akademii Nauk Kazakhskoi SSR Seriya Biologicheskaya, (1982) No.
3, pp. 7-10.
CODEN: IKABAR. ISSN: 0002-3183.

DT Article
FS BR
LA RUSSIAN

L4 ANSWER 5 OF 5 MEDLINE on STN DUPLICATE 3
AN 2001401823 MEDLINE
DN PubMed ID: 11452868
TI Studies of phosphorescent probes for proteins.
AU McCarville M; Hauxwell R
CS Department of Chemistry, Western Michigan University, Kalamazoo, Mich.
49001, USA.
SO Biochimica et biophysica acta, (1971 Dec 28) 251 (3) 285-91.
Journal code: 0217513. ISSN: 0006-3002.
CY Netherlands
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200108
ED Entered STN: 20010806
Last Updated on STN: 20010806
Entered Medline: 20010802

AB 1. Certain capabilities and limitations of using bound phosphorescent chromophores to study protein structure were investigated. Carbonic anhydrase inhibitors with three different arrangements of singlet and triplet energy levels relative to those of tryptophan were used to determine their ability to transfer triplet energy. 2. Ligands representing each of the three spectroscopic energy level arrangements were found to exhibit triplet-triplet energy transfer with a tryptophan residue at the active site of carbonic anhydrase. This greatly increases the number of ligands which may be useful as phosphorescent probes. 3. The efficiency of energy transfer occurs to varying degrees depending upon the inhibitor. This is a potential source of data for determining the position of the ligand in the binding site.